# M 5.8, 12km WSW of Lejanias, Colombia

Origin Time: 2019-12-24 19:19:03 UTC (Tue 14:19:03 local)
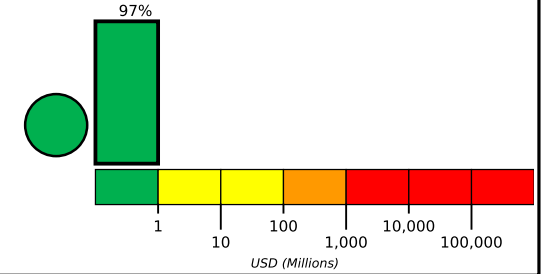Location: 3.4831° N 74.1218° W Depth: 10.0 km

**PAGER**
**Version 2**

Created: 2 hours, 1 minute after earthquake

## Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
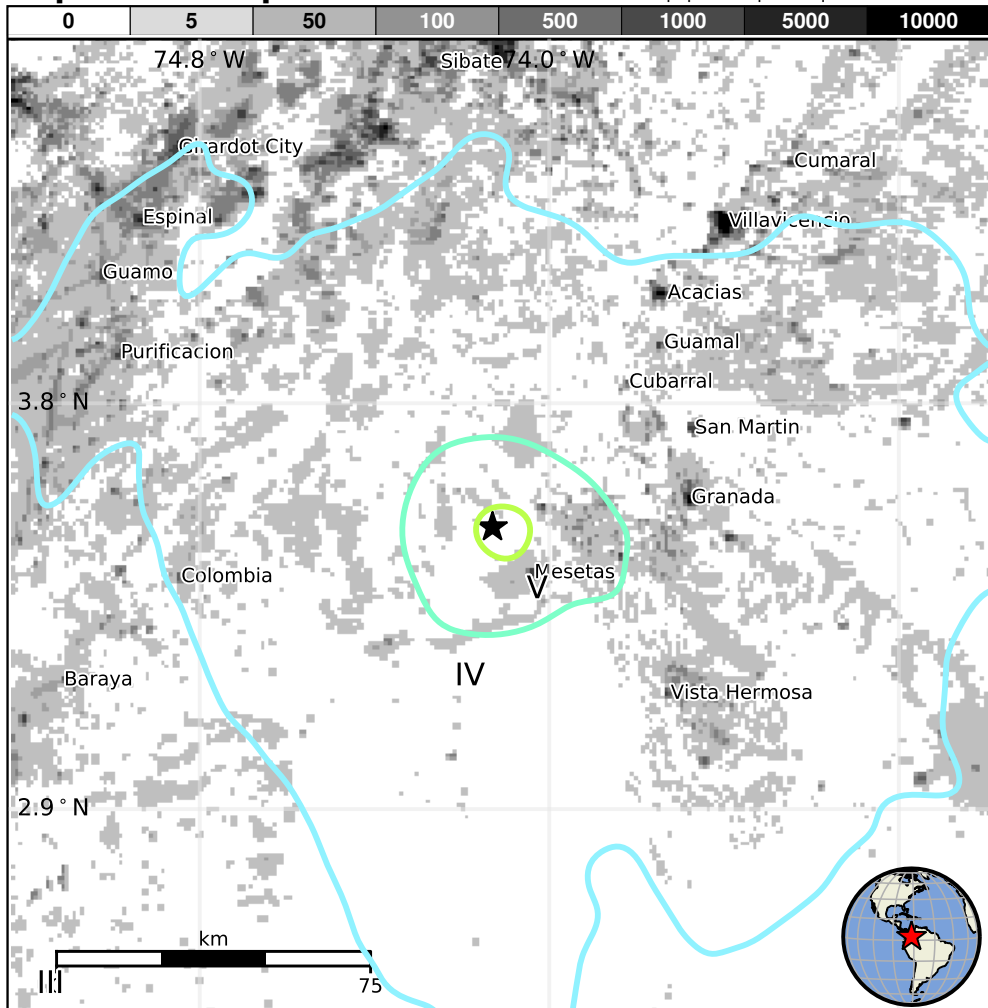
65%
30%
4%

1  10  100  1,000  10,000  100,000
*Fatalities*

## Estimated Economic Losses

97%

1  10  100  1,000  10,000  100,000
*USD (Millions)*

## Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) | | –* | 1,359k* | 836k | 22k | 2k | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| ESTIMATED MODIFIED MERCALLI INTENSITY | | I | II-III | IV | V | VI | VII | VIII | IX | X+ |
| PERCEIVED SHAKING | | Not felt | Weak | Light | Moderate | Strong | Very Strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | Resistant Structures | None | None | None | V. Light | Light | Moderate | Mod./Heavy | Heavy | V. Heavy |
| | Vulnerable Structures | None | None | None | Light | Moderate | Mod./Heavy | Heavy | V. Heavy | V. Heavy |

*Estimated exposure only includes population within the map area.

## Population Exposure

population per 1 sq. km from Landscan

0  5  50  100  500  1000  5000  10000



### Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are mud wall with wood and unknown/miscellaneous types construction.

### Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|---|---|---|---|---|
| 1983-03-31 | 304 | 5.6 | VII(47k) | 241 |
| 1991-11-19 | 378 | 7.2 | VIII(3k) | 2 |
| 1999-01-25 | 203 | 6.1 | VIII(27k) | 1k |

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

### Selected City Exposure

from GeoNames.org

| MMI | City | Population |
|---|---|---|
| VI | Lejanias | 5k |
| **V** | **Mesetas** | **4k** |
| V | San Juan de Arama | 3k |
| IV | El Castillo | 3k |
| **IV** | **Granada** | **32k** |
| IV | Castilla La Nueva | 2k |
| **IV** | **Acacias** | **41k** |
| **IV** | **Girardot City** | **130k** |
| **IV** | **Espinal** | **56k** |
| III | Fusagasuga | 89k |
| **III** | **Villavicencio** | **322k** |

bold cities appear on map. (k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage.
Limitations of input data, shaking estimates, and loss models may add uncertainty.
https://earthquake.usgs.gov/earthquakes/eventpage/us70006qp1#pager

Event ID: us70006qp1